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1 [Automated troubleshooting of a UMTS-WLAN test platform](#)

[Ronan Skehill](#), [Sean McGrath](#), [Carlos Antonio de Ramos](#)

March TridentCom '08: Proceedings of the 4th International Conference on Testbeds and 2008 research infrastructures for the development of networks & communities

Publisher: ICST (Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering)

Full text available: Pdf (276.08 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 22, Citation Count: 0

Amongst troubleshooting tasks, correct diagnosis of faults is a complex and time consuming task. Bayesian Networks provide a modelling approach suitable to cater for the uncertainty inherent in human reasoning. The method presented in this paper, valid ...

Keywords: analysis, automated troubleshooting, test platform

2 [Individual QoS versus aggregate QoS: a loss performance study](#)

[Ying Xu](#), [Roch Guérin](#)

April 2005 IEEE/ ACM Transactions on Networking (TON) , Volume 13 Issue 2

Publisher: IEEE Press

Full text available: Pdf (476.04 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 69, Citation Count: 0

This paper explores the differences that can exist between individual and aggregate loss guarantees in an environment where guarantees are only provided at the aggregate level. The focus is on understanding which traffic parameters are responsible for ...

Keywords: aggregation, loss, quality of service

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3 General hospital: modeling complex problem solving in complex work system



Barbara Mirel

October 2003 SIGDOC '03: Proceedings of the 21st annual international conference on Documentation

Publisher: ACM

Full text available: Pdf (714.00 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 42, Citation Count: 0

To be truly useful, applications for complex problem solving require distinct design approaches. One that is crucial is getting the user model right for dynamic, emergent, nonlinear work. Drawing on an example in healthcare, this paper proposes modeling ...

Keywords: adaptability, complex problems, interaction design, medical informatics, task analysis, usability, user models, user-centered design

4 A dynamic network architecture



Sean W. O'Malley, Larry L. Peterson

May 1992 Transactions on Computer Systems (TOCS) , Volume 10 Issue 2

Publisher: ACM

Full text available: Pdf (401.43 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 184, Citation Count: 48

Network software is a critical component of any distributed system. Because of its complexity, network software is commonly layered into a hierarchy of protocols, or more generally, into a protocol graph. Typical protocol graphs—including ...

Keywords: composibility, dynamic configuration, reuse

5 An adaptive multiple retransmission technique for continuous media streams



Rishi Sinha, Christos Papadopoulos

June 2004 NOSSDAV '04: Proceedings of the 14th international workshop on Network and operating systems support for digital audio and video

Publisher: ACM

Full text available: Pdf (231.30 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 31, Citation Count: 5

Retransmission can be used for loss recovery in continuous media applications but the number of retransmission attempts is bounded by the size of the playout buffer. For efficient recovery, a protocol must attempt as many retransmissions as possible ...

Keywords: continuous media, retransmission, streaming

6 On the responsiveness of DNS-based network control



Jeffrey Pang, Aditya Akella, Anees Shaikh, Balachander Krishnamurthy, Srinivasan Seshan

October 2004 IMC '04: Proceedings of the 4th ACM SIGCOMM conference on Internet measurement

Publisher: ACM

Full text available: Pdf (255.96 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 52, Citation Count: 5

For the last few years, large Web content providers interested in improving their scalability and availability have increasingly turned to three techniques: mirroring, content distribution, and ISP multihoming. The Domain Name System (DNS) has gained ...

Keywords: DNS, network control, time-to-live

7 HOMES: highway operation monitoring and evaluation system



Chang-Tien Lu, Arnold P. Boedihardjo, Jing Dai, Feng Chen

November 2008 GIS '08: Proceedings of the 16th ACM SIGSPATIAL international conference on Advances in geographic information systems

Publisher: ACM

Full text available: Pdf (481.90 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 24, Citation Count: 0

This work proposes high-performance critical visualization techniques for exploring real-time and historical traffic loop-detector data. Until recently, it has been difficult to discover trends, identify patterns, or locate abnormalities within the massive ...

Keywords: data streams, intelligent transportation system, visualization

8 Proceedings of the 2007 ACM CoNEXT conference



Jim Kurose, Henning Schulzrinne

December 2007 CoNEXT '07: Proceedings of the 2007 ACM CoNEXT conference

Publisher: ACM

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

It's a great pleasure to welcome everyone to ACM CoNEXT 2007 - the 3rd International Conference on emerging Networking EXperiments and Technologies (CoNEXT). With the first two CoNEXT conferences having been held in Toulouse and Lisbon and being founded ...

9 Impact of optimal MAC layer attacks on the network layer



Svetlana Radosavac, John S. Baras, George V. Moustakides

October 2006 SASN '06: Proceedings of the fourth ACM workshop on Security of ad hoc and sensor networks

Publisher: ACM

Full text available: Pdf (285.99 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 103, Citation Count: 0

Node misbehavior in wireless ad hoc networks leads to sudden unpredictable changes in network topology, resulting in fluctuation of traffic load and capacity for already existing links. In this work we consider node misbehavior in the Medium Access Control ...

Keyw ords: Ad-hoc networks, MAC layer, cross-layer, minmax robust detection, protocol misbehavior

10 The impact and implications of the growth in residential user-to-user traffic



Kenjiro Cho, Kensuke Fukuda, Hiroshi Esaki, Akira Kato

August 2006 SIGCOMM '06: Proceedings of the 2006 conference on Applications, technologies, architectures, and protocols for computer communications

Publisher: ACM

Full text available: Pdf (1.96 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 208, Citation Count: 4

It has been reported worldwide that peer-to-peer traffic is taking up a significant portion of backbone networks. In particular, it is prominent in Japan because of the high penetration rate of fiber-based broadband access. In this paper, we first report ...

Keyw ords: ISP backbone traffic, residential broadband, traffic growth

Also published in:

August 2006 **SIGCOMM Computer Communication Review** Volume 36 Issue 4

11 Scalable multicast based filtering and tracing framework for defeating distributed DoS attacks

Jangwon Lee, Gustavo de Veciana

January 2005 International Journal of Network Management , Volume 15 Issue 1

Publisher: John Wiley & Sons, Inc.

Full text available: Pdf (213.52 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 57, Citation Count: 1

In this paper we present a distributed scalable framework to support on- demand filtering and tracing services for defeating distributed denial of service attacks. Our filtering mechanism is designed to quickly identify a set of boundary filter locations ...

12 Identifying and discriminating between web and peer-to-peer traffic in the network core



Jeffrey Erman, Anirban Mahanti, Martin Arlitt, Carey Williamson

May 2007 WWW '07: Proceedings of the 16th international conference on World Wide Web

Publisher: ACM

Full text available: Pdf (873.84 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 249, Citation Count: 5

Traffic classification is the ability to identify and categorize network traffic by application type. In this paper, we consider the problem of traffic classification in the network core. Classification at the core is challenging because only partial ...


Keyw ords: clustering, machine learning, traffic classification

13 [A cooperative multi-agent system simulation model for urban traffic intelligent control](#)

[Xu Jin, Mhamed Iimi, Habib Abdulrab](#)

July SCSC: Proceedings of the 2007 summer computer simulation conference
2007

Publisher: Society for Computer Simulation International

Full text available:  Pdf (518.24 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 111, Citation Count: 0

Agent-based urban traffic simulation has been looked as an efficient tool for traffic planning. However, the main problem is how to build an agent-based model for traffic simulation. This research presents an urban traffic information intelligent control ...

Keywords: multi-agent system, traffic information intelligent control


14 [Loose source routing as a mechanism for traffic policies](#)



[Katerina Argyraki, David R. Cheriton](#)

August FDNA '04: Proceedings of the ACM SIGCOMM workshop on Future directions in
2004 network architecture

Publisher: ACM

Full text available:  Pdf (135.80 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 68, Citation Count: 5

Internet packet delivery policies have been of concern since the earliest times of the Internet, as witnessed by the presence of the Type of Service (ToS) field in the IPv4 header. Efforts continue today with Differentiated Services (DiffServ) and Multiprotocol ...

Keywords: filtering, loose source routing, quality of service, route control, traffic policies


15 [Class-of-service mapping for QoS: a statistical signature-based approach to IP traffic classification](#)



[Matthew Roughan, Subhabrata Sen, Oliver Spatscheck, Nick Duffield](#)

October IMC '04: Proceedings of the 4th ACM SIGCOMM conference on Internet
2004 measurement

Publisher: ACM

Full text available:  Pdf (707.69 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 165, Citation Count: 18

The ability to provide different Quality of Service (QoS) guarantees to traffic from different applications is a highly desired feature for many IP network operators, particularly for enterprise networks. Although various mechanisms exist for providing ...

Keywords: class of service (CoS), quality of service (QoS), statistical signature, traffic classification

16 [Toward a threat model for storage systems](#)



[Ragib Hasan](#), [Suvda Myagmar](#), [Adam J. Lee](#), [William Yurcik](#)

November 2005 StorageSS '05: Proceedings of the 2005 ACM workshop on Storage security and survivability

Publisher: ACM

Full text available: Pdf (258.24 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 212, Citation Count: 6

The growing number of storage security breaches as well as the need to adhere to government regulations is driving the need for greater storage protection. However, there is the lack of a comprehensive process to designing storage protection solutions. ...

Key words: security, storage system, threat model

17 [Mitigating application-level denial of service attacks on Web servers: A client-transparent approach](#)



[Mudhakar Srivatsa](#), [Arun Iyengar](#), [Jian Yin](#), [Ling Liu](#)

July 2008 Transactions on the Web (TWEB) , Volume 2 Issue 3

Publisher: ACM

Full text available: Pdf (516.74 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 52, Downloads (12 Months): 497, Citation Count: 0

Recently, we have seen increasing numbers of denial of service (DoS) attacks against online services and Web applications either for extortion reasons or for impairing and even disabling the competition. These DoS attacks have increasingly targeted the ...

Key words: DoS Attacks, Web servers, client transparency, game theory

18 [Real-time evaluation of radio access technology selection policies in heterogeneous wireless systems: the AROMA testbed approach](#)



[Miguel López-Benítez](#), [Nemanja Vučković](#), [Francisco Bernardo](#), [Anna Umbert](#)

October 2008 MSWiM '08: Proceedings of the 11th international symposium on Modeling, analysis and simulation of wireless and mobile systems

Publisher: ACM

Full text available: Pdf (843.31 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 24, Citation Count: 0

This paper presents and describes the real-time testbed for all-IP Beyond 3G heterogeneous wireless networks that has been developed in the framework of the European IST AROMA project. The main objective of the AROMA testbed is to provide an advanced ...

Key words: Beyond 3G, common radio resource management, heterogeneous wireless access systems, performance evaluation, radio access technology selection, real-time testbed

19 [Socio-technical defense against voice spamming](#)



[Prakash Kolan](#), [Ram Dantu](#)

March Transactions on Autonomous and Adaptive Systems (TAAS) , Volume 2 Issue 1 2007

Publisher: ACM

Full text available: Pdf (995.02 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 287, Citation Count: 1

Voice over IP (VoIP) is a key enabling technology for migration of circuit-switched PSTN (Public Switched Telephone Network) architectures to packet-based networks. One problem of the present VoIP networks is filtering spam calls referred to as SPIT ...

Keywords: SIP (Session Initiation Protocol), SPIT (Spam over IP Telephony), Trust, behavior, reputation, tolerance

20 [The Tenet architecture for tiered sensor networks](#)



[Omprakash Gnawali](#), [Ki-Young Jang](#), [Jeongyeup Paek](#), [Marcos Vieira](#), [Ramesh Govindan](#), [Ben Greenstein](#), [August Joki](#), [Deborah Estrin](#), [Eddie Kohler](#)

October SenSys '06: Proceedings of the 4th international conference on Embedded networked sensor systems

Publisher: ACM

Full text available: Pdf (387.85 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 284, Citation Count: 31

Most sensor network research and software design has been guided by an architectural principle that permits multi-node data fusion on small-form-factor, resource-poor nodes, or motes. We argue that this principle leads to fragile and unmanageable systems ...

Keywords: motes, network architecture, sensor networks

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